LESSON PLAN

SUB: POWER ELECTRONICS & PLC LAB BRANCH:- ELECTRICAL ENGG.

SEMESTER: 5th

NEMBEON 2022-2023

NAME OF FACULTY: ABHIPSA DUTTA



GOVERNMENT POLYTECHNIC, BHADRAK

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G. PBHADRAK

Academic of ordinator

Principala Govt. Polytechnifeth Govt. Polytechnifeth

DISCIPLINE ELECTRICAL ENGG.	SEMESTER 5 TH	NAME OF THE TEACHING FACULTY ABHIPSA DUTTA (Lect. in Elect. Engg.)
SUBJECT POWER ELLCTRONICS & PLC LAB	NO. OF DAYS/WEEK CLASS ALLOTTED – 45 (3P/week)	SEMESTER FROM DATE 15.09.2022 to 21.01.2023
WEEK	CLASS DAY	PRACTICAL TOPICS
lst	01	Study of switching characteristics of a power transistor
	02	Study of switching characteristics of a power transistor
2nd	01	Study of V-I characteristics of SCR
	02	Study of V-I characteristics of SCR
3rd	01	Study of V-I characteristics of TRIAC
	02	Study of V-I characteristics of TRIAC
4th	01	Study of V-I characteristics of DIAC
	02	Study of V-I characteristics of DIAC
5 TH	01	Study of drive circuit for SCR & TRIAC using DIAC.
	02	Study of drive circuit for SCR & TRIAC using DIAC
етн	01	To study series Inverter.
	02	To study series Inverter.
7 TH	01	Study of voltage source Inverter.
	02	Study of voltage source Inverter.
8 *H	01	To perform the speed control of DC motor using Chopper.
	02	To perform the speed control of DC motor using Chopper.
9 TH	01	To study single-phase Cyclo-converter

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	02	To study single-phase Cyclo-converter
10 TH	01	Introduction/Familiarization PLC Trainer & its Installation with PC
	02	Introduction/Familiarization PLC Trainer & its Installation with PC
11 TH	01	Learn the basics and hardware components of PLC Understand configuration of PLC system
	02	Learn the basics and hardware components of PLC Understand configuration of PLC system
12 TH	01	Study various building blocks of PLC Determine the No. of digital I/O & Analog I/O
	02	Study various building blocks of PLC Determine the No. of digital I/O & Analog I/O
13 [™]	01	Execute the different Ladder Diagrams
	02	Execute the different Ladder Diagrams
14 TH	01	Demonstrate PLC and Ladder diagram-Preparation downloading and running Execute Ladder diagrams for different Logical Gates
	02 	Demonstrate PLC and Ladder diagram-Preparation downloading and running Execute Ladder diagrams for different Logical Gates
	01	Execute the Ladder Diagrams with model applications (i) DOL starter (ii)Star- Delta starter
	02	Execute the Ladder Diagrams with model applications (i) DOL starter (ii)Star- Delta starter

Abhipea Dutto.

SIGNATURE OF THE FACULTY